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## **Claim Amendments**

## No claim is amended in this Amendment.

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1	1. (previously presented) A method of authentication in a telemetry system, said method
2	comprising:
3	transmitting, by each of a plurality of transmitters, transmissions intermittently at time intervals
4	and at a plurality of frequencies independently of any receiver of said transmissions and independently of
5	any other of said plurality of transmitters, and
6	holding, by a receiver, simultaneously for each of said plurality of transmitters, data indicative of
7	an expected frequency and an expected time of at least one future transmission, and
8	authenticating transmissions based on an expected and actual transmission frequency and time.
ì	2. (previously presented) The method of claim 1 wherein said expected transmission frequency
2	comprises estimate for transmitter reference frequency drift.
3	3. (previously presented) The method of claim 1 wherein said expected transmission time
4	comprises estimate for transmitter time reference drift.
1	4. (previously presented) The method of claim 1 wherein each of said plurality of transmitters
2	controls transmission frequency and time between transmissions based on frequency-time pattern that is
3	different for each of said plurality of transmitters.
1	5. (previously presented) The method of claim 1 wherein, each of said plurality of transmitters is
2	for varying encryption key between transmissions.
1	6. (previously presented) The method of claim 5 wherein said encryption key is varied based on
2	frequency-time pattern for controlling transmission frequency and time between transmissions.

- 7. (previously presented) The method of claim 1 wherein each of said plurality of transmitters is for verifiable and variable modification of transmitted messages content based on frequency-time pattern for controlling transmission frequency and time between transmissions.
- 8. (previously presented) A receiver for authenticating telemetry transmissions, said receiver comprising:
- logic for holding, simultaneously for each plurality of transmissions, data indicative of an expected time and an expected frequency of at least one future transmission, wherein each said plurality

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of transmissions is transmitted by a different one of a plurality of transmitters, wherein each of said 5

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- plurality of transmitters is for transmitting transmissions intermittently at time intervals and at a plurality б
- of frequencies independently of any equipment that is capable of receiving any of said transmissions from 7
- any of said plurality of transmitters, and 8
- circuitry for receiving said transmissions; Q
- wherein said receiver is for authenticating transmissions based on an expected and actual 10 11 transmission frequency and time.
  - 9. (previously presented) The receiver of claim 8 wherein said expected transmission frequency comprises estimate for transmitter reference frequency drift.
  - 10. (previously presented) The receiver of claim 8 wherein said expected transmission time comprises estimate for transmitter time reference drift.
  - 11. (previously presented) The receiver of claim 8 wherein frequency and time of transmissions is controlled according to a frequency-time pattern that is different for each of said plurality of transmitters.
    - 12. (previously presented) The receiver of claim 8 wherein said receiver is for changing decryption key between transmissions based on a frequency-time pattern for controlling frequency and time of transmissions.
  - 13. (previously presented) The receiver of claim 8 wherein said receiver, in operation, authenticates transmissions based on verifiable and variable modification of transmission content.
- 14. (previously presented) The receiver of claim 13 wherein said verifiable modification is based 1 on frequency-time pattern for controlling transmission frequency and time. 2
  - 15. (previously presented) A frequency hopping telemetry transmitter comprising:
  - circuit for transmitting transmissions intermittently, at time intervals and at various frequencies, independently of any receiver of said transmissions, and
- logic for providing a predetermined frequency-time pattern for controlling transmission frequency 5 and time between transmissions, and
- wherein said transmitter is for varying encryption, for said transmissions, based, at least in part, 6 on said frequency-time pattern. 7

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16. (previously presented) The transmitter of claim 15 wherein said frequency-time pattern is
individually selected for said transmitter from a plurality of predetermined patterns.

- 17. (previously presented) The transmitter of claim 15 wherein said frequency-time pattern is predetermined based on a transmitter identification.
- 18. (previously presented) A frequency hopping telemetry transmitter comprising:
- circuit for transmitting transmissions intermittently, at time intervals and at various frequencies,
   independently of any receiver of said transmissions, and
- logic for providing a predetermined frequency-time pattern for controlling transmission frequency
  and time between transmissions, and
  - wherein said transmitter is for modification of at least a portion of known data for transmission using a modifier that is varied based, at least in part, on said frequency-time pattern.
  - 19. (previously presented) The transmitter of claim 18 wherein frequency-time pattern is individually selected for said transmitter from a plurality of predetermined patterns.
  - 20. (previously presented) The transmitter of claim 18 wherein said frequency-time pattern is predetermined based on a transmitter identification.